

What is claimed is:

[Claim 1] A GIS server is engaged using a mobile phone. A POI is communicated to the GIS server through a mobile telephone. POI context can be communicated by methods such as voice recognition/response system (VRS), a push button technology or a Graphical User Interface (GUI). The GIS server is then engaged in session with the mobile telephone.

[Claim 2] A method and apparatus is invented to convert the GPS coordinates to a voice or text messages or touch-tone signals.

[Claim 3] A method and apparatus is invented to communicate the GPS coordinates of the mobile telephone to the GIS server. The GPS coordinates are converted into encoded voice, text messages or touch-tone signals. The messages or signals are used to communicate the coordinates of the mobile telephone to the GIS server.

[Claim 4] The mobile device session with the GIS server is established in three phases; Session Establishment, Session Engagement and Session Release.

[Claim 5] A session is established once the GIS server authenticates the validity of session request from the mobile telephone.

[Claim 6] While the session is engaged, GIS server guides for the destination point of interest, by the way of verbal or graphical commands. Thus the GIS information is server based as opposed to the current convention of storing it on the local (client) based unit. During the entire course of engagement, the server gets the GPS coordinates of the mobile device at predetermined regular intervals and it continues to guide to the destination of interest. GIS verifies the authenticity of the established session during each request and response.

[Claim 7] The mobile telephone of claim 1, based on its capacity can optionally receive textual information from the GIS server. The textual information exchange in the form of request and response during the established session can optionally be standardized using standard protocols such as WAP and WML.

[Claim 8] The GIS response can optionally be a complete route message or in the form of turn by turn instructions.

[Claim 9] The mobile telephone of claim 1, based on its capacity can optionally receive graphical information from the GIS server to display on the mobile phone unit.

[Claim 10] The engagement session of claim 1 is optionally initiated by voice prompts, using a voice recognition server/unit.

[Claim 11] The engagement session of claim 1 is optionally initiated by graphical prompts on the mobile telephone.

[Claim 12] The navigational request (command) of claim 2 is created by encoding the GPS coordinates as voice commands.

[Claim 13] The command of claim 2 is optionally created by encoding the GPS coordinates as textual input.

[Claim 14] The command of claim 2 is optionally created by pushing the buttons on the mobile telephone or transmitting the encoded touch-tone signals.

[Claim 15] The GIS guidance is server based enabling it to become a service. The service in claim 15 can optionally be engaged to metering and billing system to offer a variety of navigational choices. Not a claim.